

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P450831

Luminaire Tested: **GLAN-SA1C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4631 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

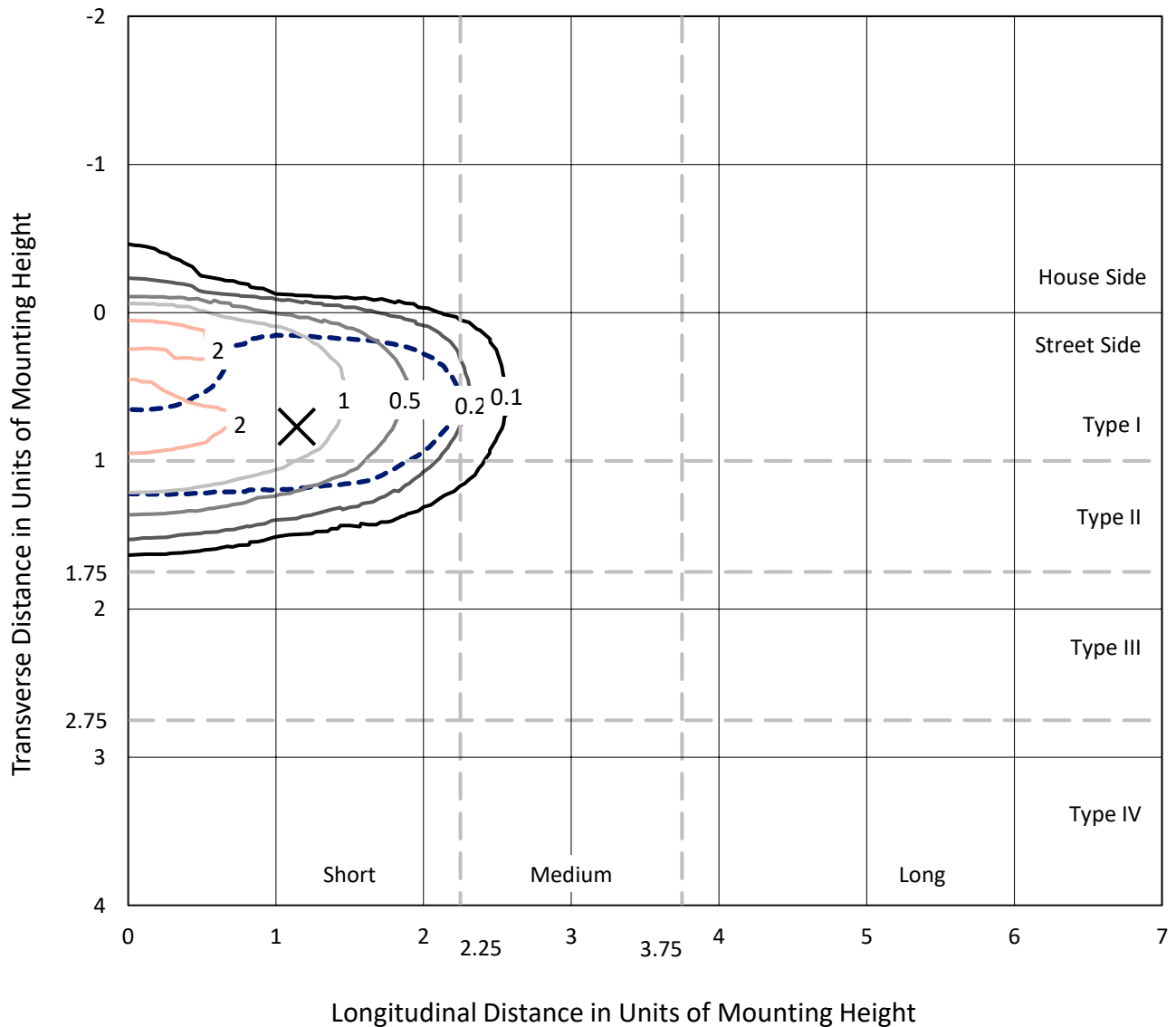
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

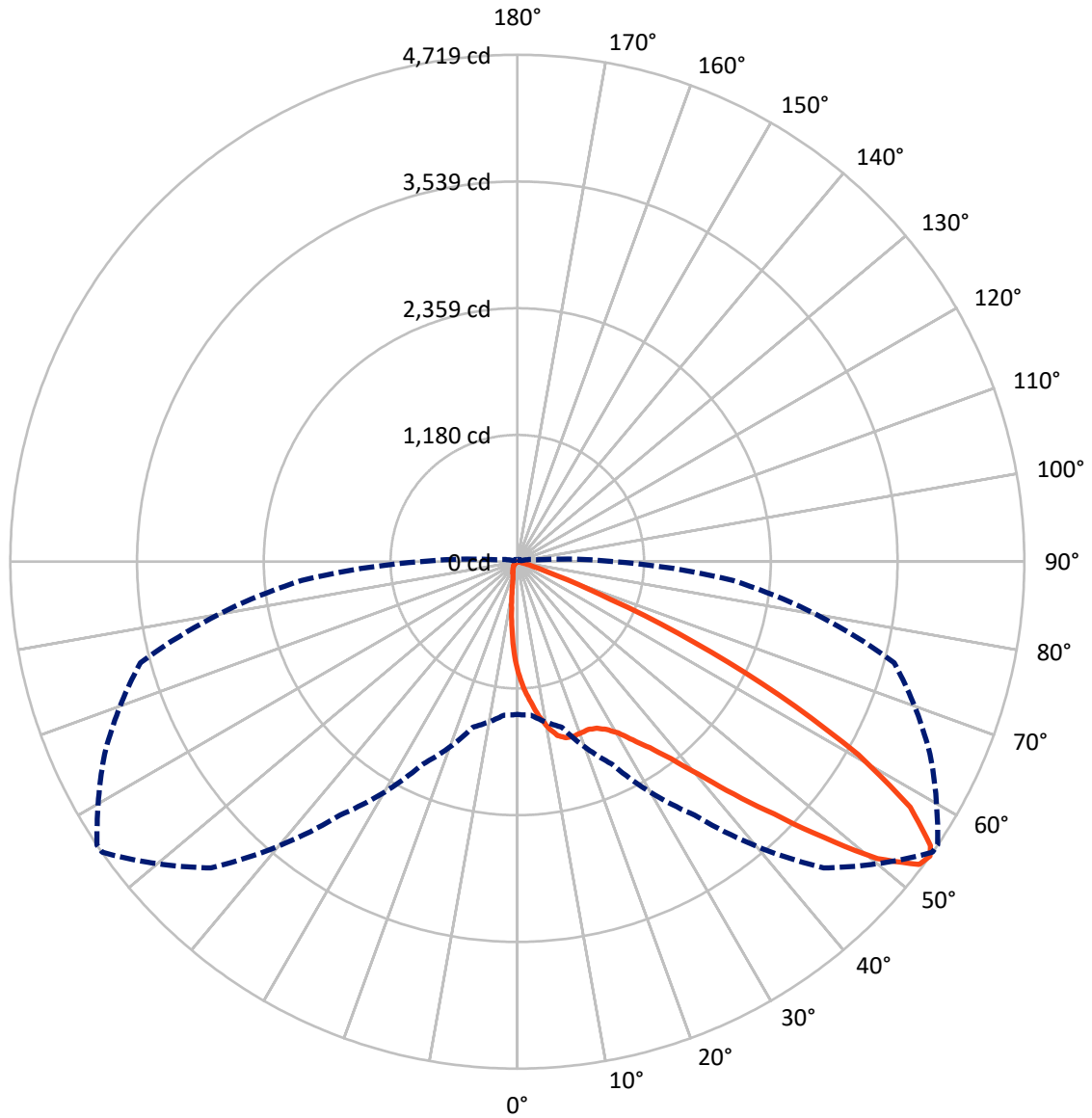
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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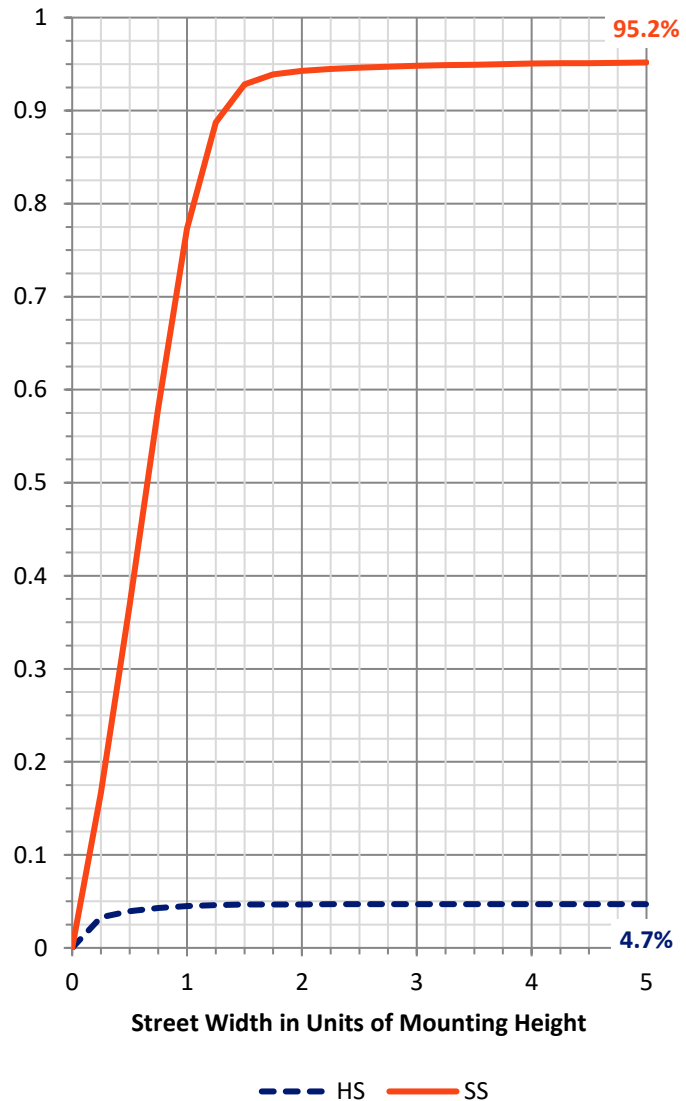
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 219.0 | 0.0 | 219.0 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 4412.0 | 0.0 | 4412.0 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 4631.0 | 0.0 | 4631.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.9 | 2.0 |
| 10°-20° | 245.8 | 5.3 |
| 20°-30° | 425.7 | 9.2 |
| 30°-40° | 734.8 | 15.9 |
| 40°-50° | 1250.6 | 27.0 |
| 50°-60° | 1237.6 | 26.7 |
| 60°-70° | 564.9 | 12.2 |
| 70°-80° | 72.5 | 1.6 |
| 80°-90° | 8.2 | 0.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4631.0 | 100.0 |
| 0°-180° | 4631.0 | 100.0 |

Coefficient of Utilization



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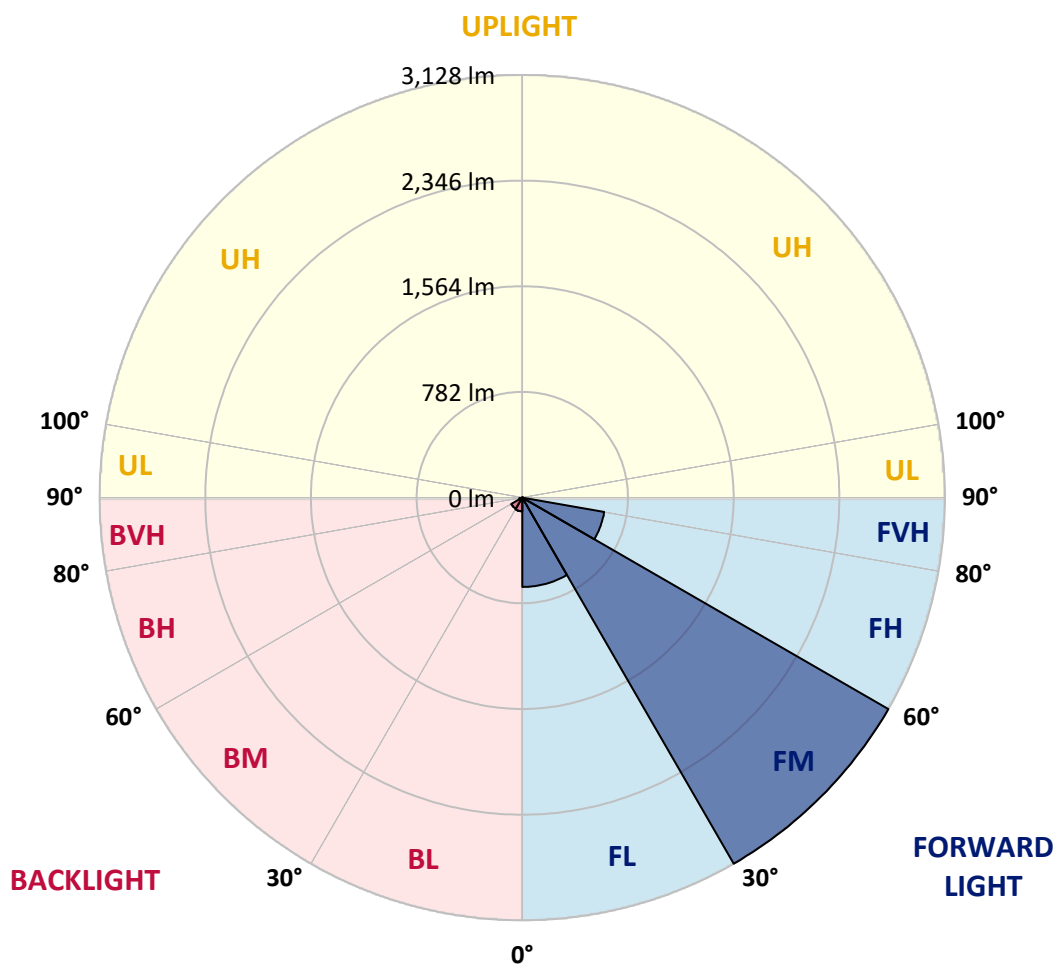
CATALOG NUMBER: GLAN-SA1C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 661.1 | 14.3 | | | |
| FM (30°-60°) | 3128.1 | 67.5 | | | |
| FH (60°-80°) | 615.5 | 13.3 | | | G0/660 |
| FVH (80°-90°) | 7.3 | 0.2 | | | G0/10 |
| BL (0°-30°) | 101.3 | 2.2 | B0/110 | | |
| BM (30°-60°) | 94.9 | 2.0 | B0/220 | | |
| BH (60°-80°) | 21.9 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 |
| 2.5° | 1307.6 | 1298.5 | 1286.0 | 1276.3 | 1253.5 | 1220.7 | 1186.0 | 1186.0 | 1152.6 | 1106.0 | 1058.6 |
| 5° | 1508.2 | 1502.2 | 1490.0 | 1465.0 | 1439.4 | 1393.5 | 1323.8 | 1311.6 | 1252.0 | 1167.6 | 1078.9 |
| 7.5° | 1589.7 | 1592.5 | 1593.1 | 1586.6 | 1574.4 | 1529.1 | 1460.0 | 1451.6 | 1356.3 | 1243.2 | 1105.4 |
| 10° | 1511.6 | 1525.3 | 1538.8 | 1566.0 | 1604.4 | 1615.3 | 1576.3 | 1567.5 | 1473.8 | 1319.8 | 1134.2 |
| 12.5° | 1395.4 | 1402.9 | 1410.4 | 1453.2 | 1530.3 | 1618.8 | 1659.7 | 1659.4 | 1580.0 | 1396.0 | 1170.7 |
| 15° | 1341.3 | 1347.9 | 1348.5 | 1367.6 | 1434.4 | 1563.2 | 1695.3 | 1700.0 | 1683.8 | 1490.0 | 1210.1 |
| 17.5° | 1352.6 | 1357.9 | 1353.5 | 1358.2 | 1393.2 | 1501.9 | 1691.3 | 1706.9 | 1767.8 | 1580.3 | 1245.7 |
| 20° | 1426.0 | 1436.3 | 1419.4 | 1406.3 | 1416.9 | 1485.7 | 1677.5 | 1699.4 | 1827.2 | 1668.4 | 1278.2 |
| 22.5° | 1557.8 | 1563.5 | 1542.2 | 1506.3 | 1487.5 | 1519.7 | 1673.8 | 1695.3 | 1877.8 | 1740.6 | 1297.0 |
| 25° | 1704.4 | 1702.5 | 1679.1 | 1638.8 | 1599.4 | 1588.5 | 1698.4 | 1717.8 | 1919.7 | 1805.6 | 1302.6 |
| 27.5° | 1850.9 | 1856.5 | 1817.2 | 1767.2 | 1720.0 | 1691.6 | 1753.7 | 1768.1 | 1966.8 | 1879.7 | 1309.4 |
| 30° | 2021.2 | 2012.1 | 1973.4 | 1916.2 | 1862.2 | 1822.5 | 1842.8 | 1846.9 | 2031.8 | 1977.8 | 1327.6 |
| 32.5° | 2242.7 | 2217.7 | 2174.3 | 2074.3 | 2035.6 | 1968.4 | 1973.4 | 1978.4 | 2110.9 | 2074.9 | 1349.4 |
| 35° | 2543.3 | 2542.0 | 2457.1 | 2322.4 | 2228.0 | 2144.6 | 2122.7 | 2126.8 | 2230.5 | 2219.3 | 1397.9 |
| 37.5° | 2905.1 | 2910.1 | 2813.2 | 2677.6 | 2503.9 | 2371.4 | 2326.5 | 2327.1 | 2412.4 | 2418.6 | 1471.6 |
| 40° | 3199.7 | 3212.9 | 3155.1 | 3063.5 | 2892.0 | 2684.8 | 2609.2 | 2602.3 | 2668.0 | 2660.1 | 1576.9 |
| 42.5° | 3326.6 | 3338.8 | 3360.3 | 3392.2 | 3297.8 | 3126.9 | 2948.5 | 2957.9 | 2977.9 | 2923.2 | 1695.0 |
| 45° | 3264.4 | 3283.8 | 3368.4 | 3565.3 | 3654.0 | 3596.5 | 3383.8 | 3351.0 | 3266.3 | 3209.1 | 1813.7 |
| 47.5° | 3005.4 | 3052.6 | 3194.1 | 3521.9 | 3832.4 | 4026.8 | 3874.9 | 3831.5 | 3555.0 | 3417.8 | 1889.3 |
| 50° | 2579.5 | 2582.3 | 2779.5 | 3198.5 | 3739.9 | 4298.3 | 4376.4 | 4343.9 | 3824.0 | 3535.0 | 1927.5 |
| 52.5° | 1870.0 | 1931.5 | 2112.1 | 2597.3 | 3339.4 | 4257.0 | 4696.0 | 4682.6 | 4101.4 | 3595.0 | 1982.5 |
| 54° | 1421.6 | 1433.5 | 1594.1 | 2075.6 | 2879.2 | 4030.5 | 4715.7 | 4718.8 | 4239.2 | 3631.2 | 2014.9 |
| 55° | 1165.4 | 1137.0 | 1305.7 | 1768.1 | 2565.2 | 3830.2 | 4651.3 | 4666.3 | 4301.1 | 3650.0 | 2039.0 |
| 57.5° | 552.4 | 552.7 | 681.8 | 932.6 | 1606.6 | 2974.1 | 4258.0 | 4311.1 | 4308.0 | 3682.1 | 2113.1 |
| 60° | 279.6 | 281.5 | 309.9 | 430.5 | 793.6 | 1977.1 | 3520.6 | 3647.1 | 3976.5 | 3686.8 | 2137.4 |
| 62.5° | 195.6 | 193.4 | 188.7 | 207.1 | 334.0 | 1004.8 | 2621.1 | 2731.1 | 3378.4 | 3508.4 | 2059.9 |
| 65° | 167.5 | 162.8 | 149.7 | 146.8 | 168.7 | 400.2 | 1632.5 | 1811.9 | 2579.5 | 3037.9 | 1839.4 |
| 67.5° | 143.1 | 141.2 | 129.4 | 122.2 | 119.4 | 174.3 | 842.3 | 936.7 | 1763.1 | 2183.7 | 1393.2 |
| 70° | 121.5 | 120.6 | 113.4 | 104.4 | 96.5 | 104.4 | 312.4 | 387.1 | 982.6 | 1175.7 | 657.4 |
| 72.5° | 98.7 | 99.7 | 100.9 | 89.4 | 81.2 | 74.0 | 133.4 | 155.3 | 411.2 | 420.2 | 230.0 |
| 75° | 86.5 | 85.6 | 85.6 | 77.8 | 67.8 | 55.0 | 73.4 | 79.0 | 125.9 | 116.9 | 53.4 |
| 77.5° | 60.9 | 58.7 | 68.7 | 64.1 | 56.6 | 39.1 | 41.9 | 44.4 | 52.2 | 44.7 | 25.0 |
| 80° | 42.2 | 42.2 | 44.1 | 57.5 | 50.9 | 28.4 | 25.6 | 27.5 | 30.9 | 26.6 | 14.4 |
| 82.5° | 23.7 | 24.4 | 28.7 | 30.6 | 29.7 | 19.1 | 16.9 | 17.2 | 20.6 | 18.1 | 9.1 |
| 85° | 2.8 | 4.7 | 16.6 | 16.2 | 12.2 | 8.4 | 9.4 | 9.7 | 12.8 | 11.2 | 5.3 |
| 87.5° | 0.3 | 0.6 | 3.4 | 4.4 | 3.1 | 3.4 | 3.4 | 3.4 | 4.4 | 5.0 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 | 1028.9 |
| 2.5° | 1032.9 | 1009.2 | 952.6 | 887.0 | 845.2 | 777.0 | 719.6 | 678.0 | 667.7 | 647.7 | 653.6 |
| 5° | 1031.7 | 982.3 | 867.0 | 745.2 | 615.2 | 518.3 | 446.2 | 389.3 | 364.3 | 347.7 | 336.2 |
| 7.5° | 1032.3 | 955.1 | 770.2 | 576.1 | 420.9 | 325.9 | 259.0 | 224.3 | 201.2 | 191.5 | 192.8 |
| 10° | 1034.2 | 924.5 | 657.7 | 426.8 | 284.0 | 210.6 | 169.7 | 153.1 | 145.3 | 144.0 | 143.7 |
| 12.5° | 1038.6 | 891.1 | 550.2 | 316.8 | 198.7 | 153.1 | 137.5 | 131.9 | 129.4 | 129.4 | 128.4 |
| 15° | 1043.2 | 854.2 | 460.9 | 235.6 | 153.1 | 131.5 | 124.4 | 121.5 | 120.0 | 120.0 | 119.7 |
| 17.5° | 1043.2 | 811.7 | 377.4 | 182.8 | 131.9 | 120.9 | 115.3 | 111.5 | 110.3 | 110.3 | 110.0 |
| 20° | 1036.7 | 762.4 | 303.4 | 147.2 | 119.7 | 110.9 | 105.3 | 101.2 | 99.7 | 99.0 | 98.7 |
| 22.5° | 1013.9 | 696.4 | 241.5 | 126.5 | 109.7 | 102.2 | 95.0 | 90.3 | 89.0 | 88.4 | 88.7 |
| 25° | 973.3 | 622.1 | 191.2 | 111.2 | 100.6 | 91.5 | 85.3 | 81.9 | 80.6 | 80.6 | 80.9 |
| 27.5° | 931.4 | 544.3 | 151.5 | 99.7 | 89.7 | 81.5 | 76.5 | 74.4 | 74.0 | 75.0 | 75.3 |
| 30° | 892.6 | 466.2 | 122.8 | 90.3 | 80.0 | 73.1 | 69.7 | 69.0 | 69.0 | 69.4 | 69.7 |
| 32.5° | 849.5 | 397.7 | 102.8 | 82.2 | 72.2 | 66.2 | 64.4 | 64.4 | 65.0 | 65.0 | 65.6 |
| 35° | 822.4 | 339.0 | 90.3 | 74.4 | 66.2 | 61.2 | 60.0 | 60.3 | 61.2 | 62.5 | 63.1 |
| 37.5° | 807.7 | 292.1 | 82.2 | 68.1 | 60.6 | 57.2 | 55.9 | 56.6 | 58.7 | 60.9 | 61.2 |
| 40° | 808.9 | 256.8 | 75.6 | 62.8 | 56.2 | 52.5 | 51.6 | 53.4 | 55.6 | 57.8 | 58.1 |
| 42.5° | 822.7 | 230.6 | 69.4 | 56.6 | 52.5 | 47.2 | 46.9 | 48.7 | 49.7 | 51.9 | 52.2 |
| 45° | 838.9 | 211.5 | 62.8 | 50.0 | 45.6 | 40.9 | 41.2 | 42.8 | 44.1 | 47.5 | 48.1 |
| 47.5° | 843.9 | 198.4 | 55.3 | 42.5 | 37.5 | 35.9 | 36.2 | 37.2 | 39.7 | 42.8 | 43.1 |
| 50° | 849.5 | 190.3 | 48.1 | 35.9 | 31.9 | 31.6 | 31.9 | 32.5 | 34.1 | 35.3 | 35.0 |
| 52.5° | 873.6 | 190.0 | 42.2 | 31.2 | 27.2 | 27.8 | 28.1 | 27.8 | 26.6 | 24.7 | 24.1 |
| 54° | 896.1 | 190.9 | 39.4 | 29.1 | 25.0 | 25.9 | 25.6 | 24.1 | 20.9 | 19.1 | 18.1 |
| 55° | 914.2 | 191.8 | 37.8 | 27.5 | 23.7 | 24.1 | 24.4 | 21.2 | 17.2 | 15.3 | 14.7 |
| 57.5° | 949.8 | 189.7 | 34.1 | 24.1 | 20.9 | 19.7 | 19.4 | 14.1 | 9.4 | 8.1 | 7.5 |
| 60° | 932.0 | 171.2 | 30.9 | 20.6 | 17.8 | 15.9 | 13.1 | 7.8 | 4.7 | 3.4 | 3.4 |
| 62.5° | 862.0 | 145.3 | 27.5 | 16.9 | 14.7 | 12.2 | 6.9 | 4.4 | 2.2 | 1.2 | 0.9 |
| 65° | 771.1 | 122.2 | 24.7 | 13.4 | 11.6 | 7.8 | 3.7 | 2.8 | 0.9 | 0.0 | 0.0 |
| 67.5° | 573.3 | 90.6 | 20.9 | 10.6 | 8.7 | 5.0 | 2.5 | 1.6 | 0.3 | 0.0 | 0.0 |
| 70° | 265.6 | 55.3 | 17.8 | 8.1 | 6.2 | 3.7 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 76.2 | 34.7 | 14.7 | 5.9 | 4.4 | 3.1 | 1.6 | 0.6 | 0.3 | 0.0 | 0.0 |
| 75° | 26.6 | 27.8 | 10.9 | 4.4 | 3.4 | 2.2 | 1.2 | 0.6 | 0.3 | 0.0 | 0.0 |
| 77.5° | 15.9 | 22.5 | 6.9 | 3.7 | 2.8 | 1.9 | 1.2 | 0.6 | 0.3 | 0.3 | 0.0 |
| 80° | 9.1 | 15.0 | 4.4 | 3.1 | 2.5 | 1.6 | 0.9 | 0.6 | 0.3 | 0.3 | 0.0 |
| 82.5° | 5.0 | 7.2 | 3.4 | 2.8 | 2.2 | 1.6 | 0.9 | 0.6 | 0.3 | 0.3 | 0.3 |
| 85° | 4.1 | 3.7 | 2.8 | 2.5 | 1.9 | 1.2 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.1 | 2.5 | 2.5 | 2.5 | 1.9 | 1.2 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)